

AMENDMENTS TO THE CLAIMS

1-8. (Cancelled)

9. (Currently Amended) A ~~An isolated~~ polynucleotide encoding a secretory or membrane-binding chimeric protein composed of an energy-generating protein and an energy-receiving protein linked to one another wherein energy transfer can arise between the energy-generating protein and the energy-receiving protein, or a complementary chain thereof, wherein the chimeric protein is composed of *Vargula* luciferase or *Cypridina* luciferase and YFP and wherein the polynucleotide encoding a chimeric protein composed of *Vargula* luciferase and YFP comprises the sequence of SEQ ID NO: 1.

10. (Original) A vector comprising the polynucleotide according to claim 9.

11. (Original) A transformant transformed with the vector according to claim 10.

12. (Original) A method for producing a secretory or membrane-binding chimeric protein including a step of culturing the transformant according to claim 11 in a medium, and a step of collecting the secretory or membrane-binding chimeric protein from the medium.

13-16. (Cancelled)

17. (Previously Presented) The polynucleotide according to claim 9, wherein a monitor peptide is introduced between luciferase and YFP or inside the luciferase or inside the YFP so as to retain an energy-generating property or an energy-receiving property, and the energy transfer is inhibited by cleaving the monitor peptide.

18. (Currently Amended) A ~~An isolated~~ polynucleotide encoding ~~at the~~ chimeric protein ~~having an amino acid comprising the sequence represented by~~ of SEQ ID NO: 1.